In data-intensive industries like media and entertainment, life sciences, oil and gas, financial services, manufacturing and Enterprise Big Data, organizations struggle with the cost, complexity and supportability implications of growing and managing Big Data storage. To address these challenges, organizations require massively scalable and powerful storage that can start small and scale on demand. However, traditional scale-out system bottlenecks prevent them from scaling to meet performance, parallel I/O and capacity requirements, making it a challenge to acquire the right storage for their needs. Another approach is to leverage massively scalable parallel file systems, but they are often complex to install and difficult to optimize for the performance needs of these Big Data environments. Furthermore, these environments often rely on open source software where Enterprise support is not typically available. Organizations need a Big Data solution that has the performance of a parallel file system with Enterprise grade delivery, features and support combined with all-in-one appliance deployment simplicity.

Leveraging over a decade of leadership in the top end of Big Data storage in the high-performance computing market, the DDN® GS7K is purpose-built to be an easy to deploy scale-out parallel file system appliance that starts small and scales on demand to any level of performance or capacity requirements. The GS7K includes Enterprise features, CIFS/NFS and Cloud Extensions while leveraging the power of the Storage Fusion Architecture® and the performance and scalability of IBM's GPFS® file system in an all-in-one appliance for Big Data. Delivering turnkey appliance simplicity, the GS7K resolves the challenges associated with today's growing stores of Big Data, providing industry leading performance, scalability and energy savings. Designed to minimize TCO, GS7K offers the highest density storage with 60 drives that can fit in just 4U of rack space, allowing you to reduce data center requirements while saving on power and cooling.

**Enterprise Class Features:** Snapshots and Rollback, Quotas, Replication, Seamless Cloud Connectivity, Data Tiering and More

**Multi-Level Data Protection:** Flexible RAID, Integrated Backup, DirectProtect and More

**The DDN® DataMigrator** Storage Management Tool allows users to migrate data between any file system. DataMigrator provides simplistic monitoring and policy-based data movement and archive management tools for WOS based Hybrid Archive

**BENEFITS**

Available in configurations that arrive at your door to simplify setup and deployment

Start small and scale non-disruptively by adding additional GS7K systems as building blocks

Scale to 100s of GB/s of performance and PBs of capacity

Simplify Administration with a powerful and simple DirectMon cluster management framework

Leverages Storage Fusion Xcelerator (SFX) to combine the performance of flash with the economy of rotating media

Enterprise grade data protection and management features

Reclaim data center space with a system that is up to 4X denser than commodity storage

24/7 Support - delivered and integrated by Big Data experts
**GS7K CONFIGURATIONS**

**START SMALL AND SCALE ON DEMAND**

<table>
<thead>
<tr>
<th>Configurations</th>
<th>Base Enclosure</th>
<th>Base + 1x SS8460</th>
<th>Base + 2x SS8460</th>
<th>Base + 3x SS8460</th>
<th>Base + 4x SS8460</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of Drives</strong></td>
<td>60</td>
<td>144</td>
<td>228</td>
<td>312</td>
<td>396</td>
</tr>
<tr>
<td><strong>Rack Space</strong></td>
<td>4U</td>
<td>8U</td>
<td>12U</td>
<td>16U</td>
<td>20U</td>
</tr>
</tbody>
</table>

Scale out to PBs of capacity, and 100s of GB/sec of Performance using the above building blocks.

**AUTOMATICALLY HSM TO TAPE**

**TECHNICAL SPECIFICATIONS**

- **PROTOCOLS**: NFS v4, CIFS SMB 1.0.2.0 and 2.1
- **Linux and Windows Parallel FS Clients**
- **STORAGE HOST PORTS**: 4 x 56Gb/s FDR InfiniBand Ports or 4 x 40GbE Ports
- **FILE SERVERS PER BASE ENCLOSURE**: 4 Network Shared Disks (NSDs)
- **PERFORMANCE**: 12GB/s per Building Block; scale out to 100s of GB/sec of Performance and PBs of Capacity using a building block approach
- **METADATA**: Distributed
- **DATA PROTECTION**: RAID 1/5/6, Up to 256 Snapshots per Volume – policy driven, Snapshot Rollback, DirectProtect & DirectProtect+, Online & Automatic Storage Rebalancing, High Speed Defragmentation
- **DRIVES SUPPORTED**: SSD, Performance SAS and Capacity SAS/SATA drives, 3.5" 60 in base unit, 396 with expansion enclosures
- **REPLICATION**: Synchronous Data and Metadata, Asynchronous using WOS
- **DATA AND SYSTEM MANAGEMENT**: Quotas (users, groups, file sets), DirectMon Centralized configuration and monitoring solution, Optional HSM Interface for ILM (IBM HPSS), Optimized Backup (IBM TSM)

* Additional Licenses May Be Required for Some Features

**FOR MORE INFORMATION VISIT:** [http://www.ddn.com/products/gridscaler-file-storage-system](http://www.ddn.com/products/gridscaler-file-storage-system)

**ABOUT DDN**

DataDirect Networks (DDN) is the world’s leading big data storage supplier to data-intensive, global organizations. For more than 15 years, DDN has designed, developed, deployed and optimized systems, software and solutions that enable enterprises, service providers, universities and government agencies to generate more value and to accelerate time to insight from their data and information, on premise and in the cloud. Organizations leverage the power of DDN technology and the deep technical expertise of its team to capture, store, process, analyze, collaborate and distribute data, information and content at largest scale in the most efficient, reliable and cost effective manner. DDN customers include many of the world’s leading financial services firms and banks, healthcare and life science organizations, manufacturing and energy companies, government and research facilities, and web and cloud service providers. For more information, visit our website [www.ddn.com](http://www.ddn.com) or call 1-800-837-2298.